

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P836884

Luminaire Tested: **ARCH3-90-722-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836884
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-90-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8794 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 93.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

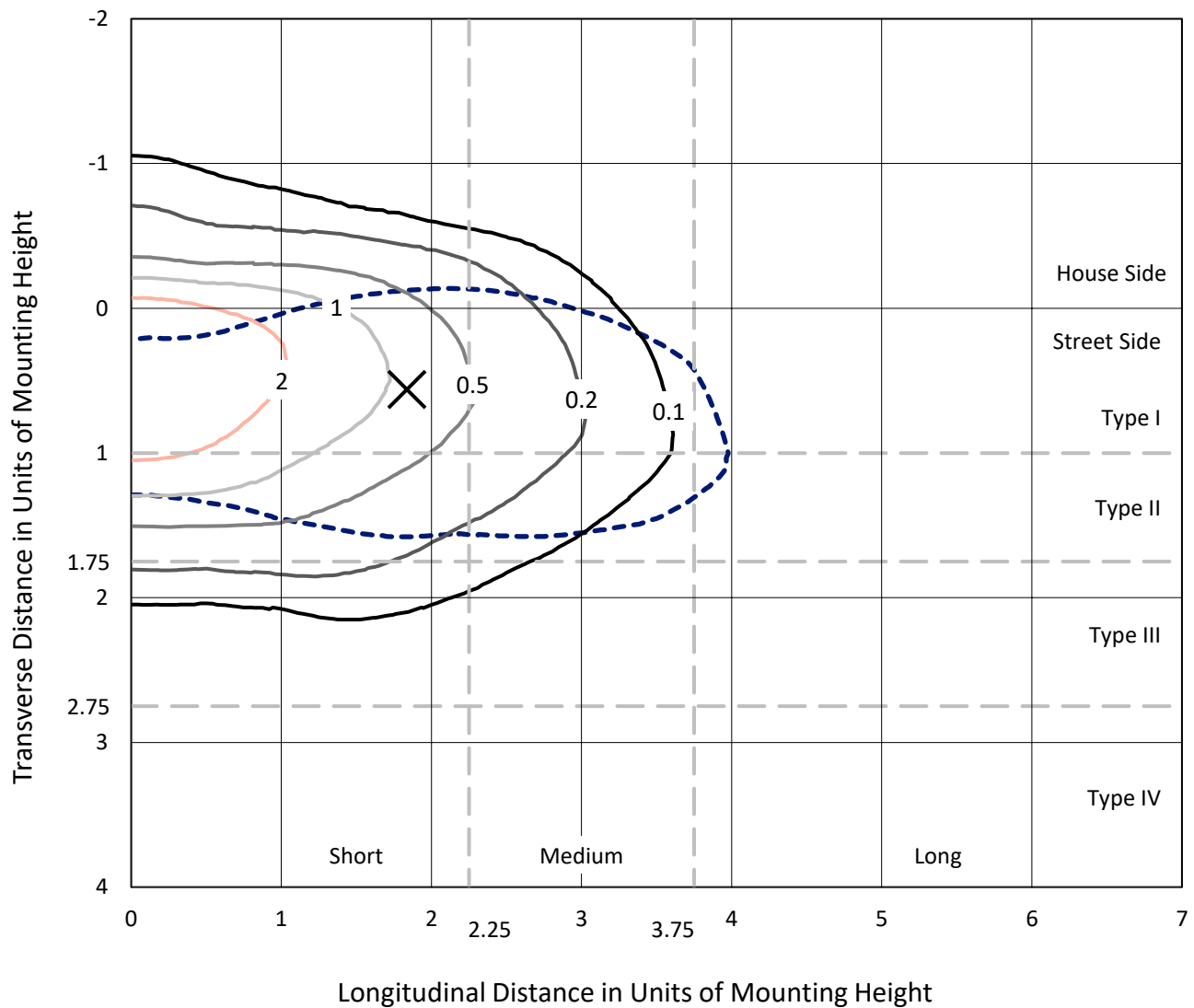


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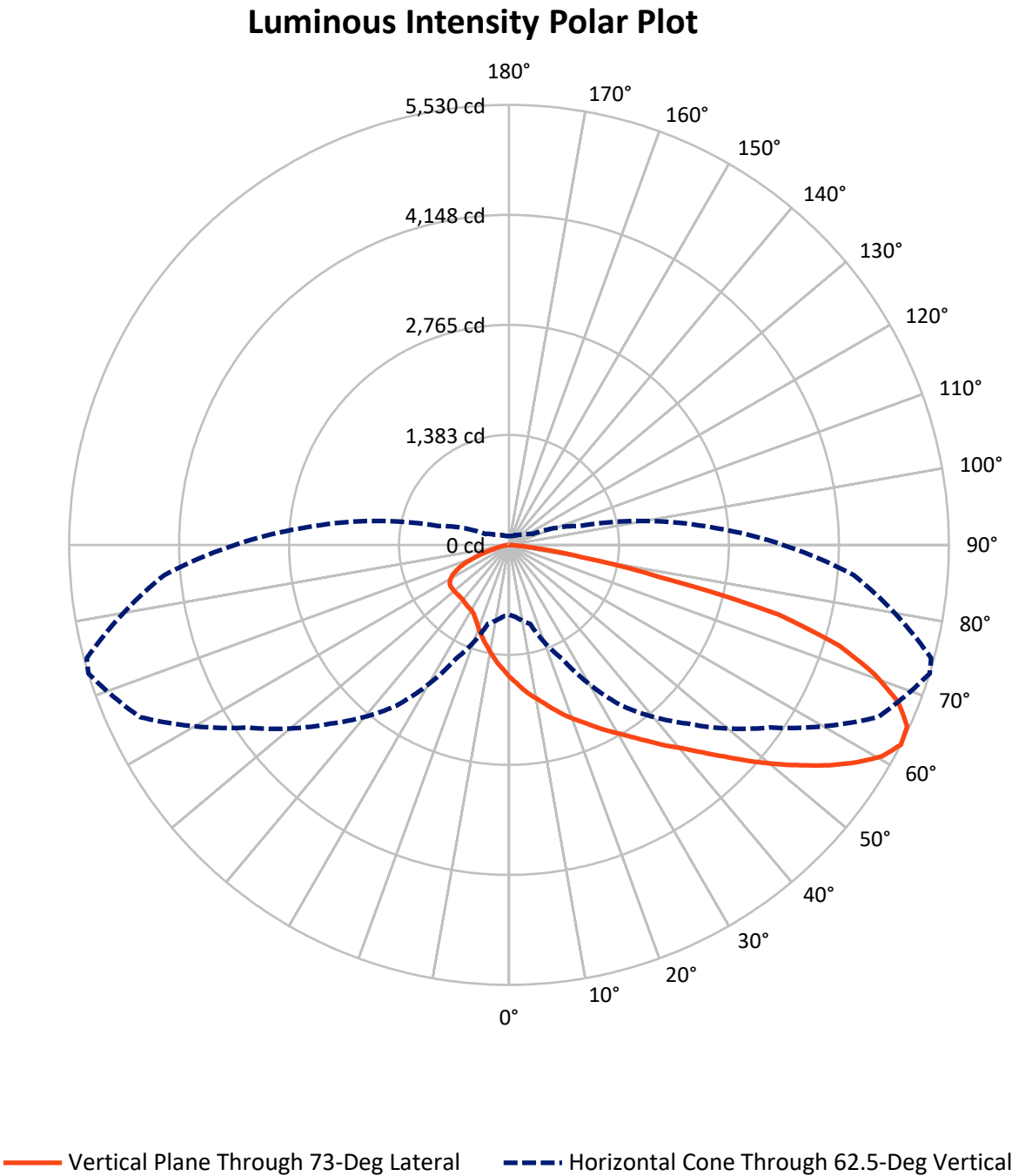
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type II - Short - N/A

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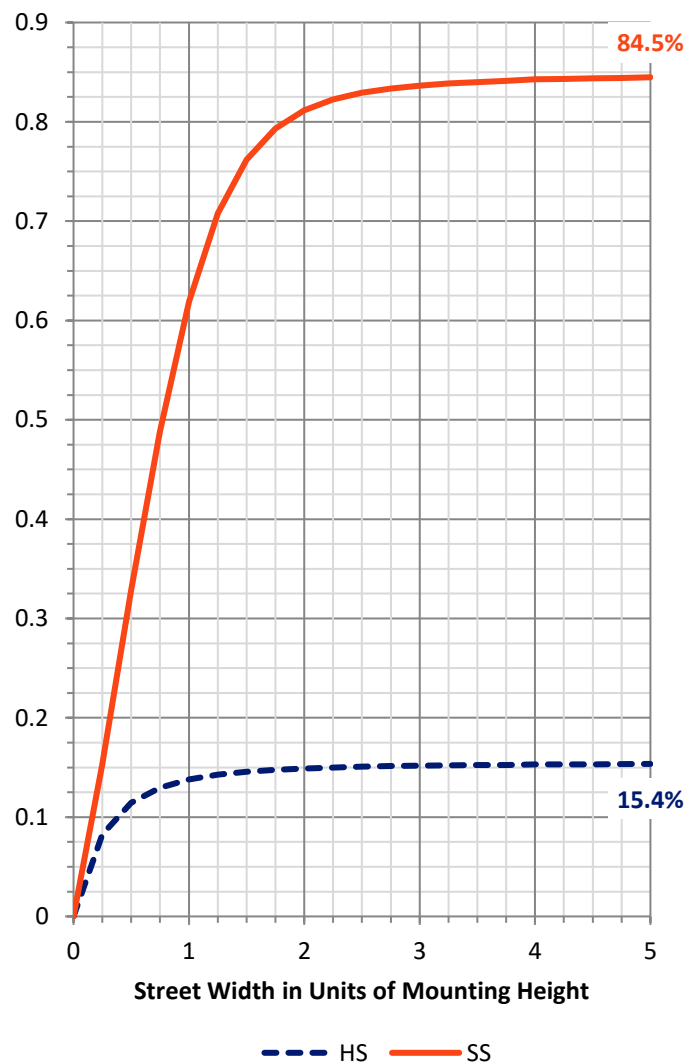
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1363.2	0.0	1363.2
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	7430.8	0.0	7430.8
	% Fixture	84.5	0.0	84.5
Total	Lumens	8794.0	0.0	8794.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.9	1.8
10°-20°	485.4	5.5
20°-30°	808.0	9.2
30°-40°	1219.1	13.9
40°-50°	1704.0	19.4
50°-60°	1882.2	21.4
60°-70°	1639.6	18.6
70°-80°	828.3	9.4
80°-90°	66.5	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8794.0	100.0
0°-180°	8794.0	100.0

Coefficient of Utilization



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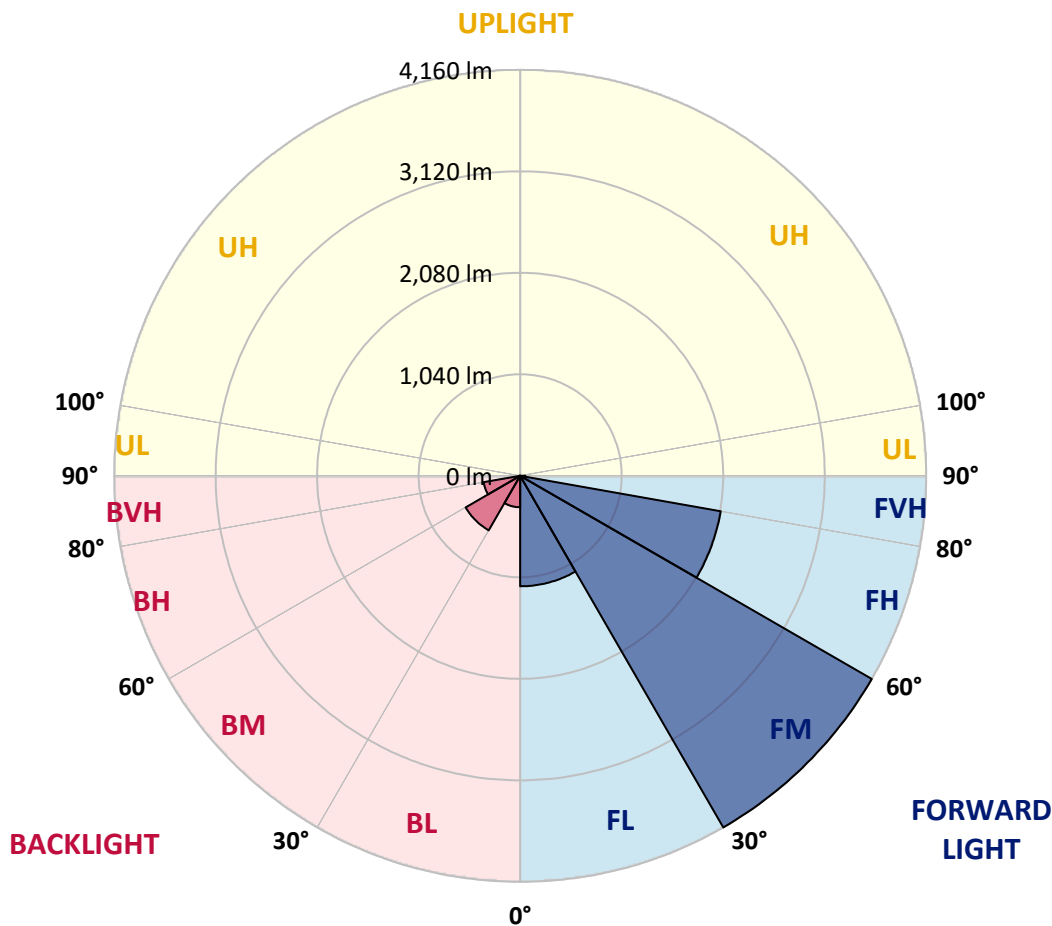
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1132.1	12.9			
FM	(30°-60°)	4159.9	47.3			
FH	(60°-80°)	2087.4	23.7			G2/5000
FVH	(80°-90°)	51.4	0.6			G1/100
BL	(0°-30°)	322.2	3.7	B1/500		
BM	(30°-60°)	645.5	7.3	B1/1000		
BH	(60°-80°)	380.5	4.3	B1/500		G1/500
BVH	(80°-90°)	15.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2
2.5°	1895.1	1916.2	1904.7	1912.4	1874.0	1849.1	1820.4	1764.8	1734.1	1730.3	1693.9
5°	2173.0	2195.9	2176.8	2171.0	2104.0	2046.5	1981.3	1883.6	1818.5	1807.0	1726.5
7.5°	2450.8	2471.9	2448.9	2431.6	2341.6	2240.0	2144.2	2000.5	1898.9	1879.8	1753.3
10°	2646.2	2665.4	2648.2	2630.9	2537.0	2433.6	2297.5	2109.7	1971.8	1941.1	1770.6
12.5°	2793.8	2805.3	2797.6	2782.3	2694.2	2583.0	2452.7	2232.4	2054.1	2015.8	1797.4
15°	2914.5	2933.7	2924.1	2912.6	2828.3	2717.1	2592.6	2360.7	2150.0	2102.1	1837.6
17.5°	2995.0	3008.4	3010.3	3010.3	2935.6	2826.4	2705.6	2477.6	2245.8	2184.4	1875.9
20°	3031.4	3046.7	3056.3	3071.6	3010.3	2916.4	2793.8	2577.3	2335.8	2266.8	1912.4
22.5°	3048.6	3062.1	3087.0	3121.5	3071.6	2993.1	2880.0	2669.2	2425.9	2353.1	1954.5
25°	3062.1	3079.3	3115.7	3180.9	3146.4	3079.3	2981.6	2774.6	2533.2	2458.5	2015.8
27.5°	3098.5	3119.5	3154.0	3232.6	3190.4	3157.9	3088.9	2887.7	2646.2	2569.6	2090.6
30°	3224.9	3242.2	3240.3	3290.1	3238.3	3228.8	3180.9	2996.9	2755.5	2678.8	2178.7
32.5°	3454.9	3472.1	3430.0	3410.8	3297.7	3299.7	3280.5	3113.8	2885.8	2807.2	2280.3
35°	3702.1	3721.2	3665.7	3633.1	3443.4	3387.8	3397.4	3259.4	3031.4	2952.8	2406.7
37.5°	3922.4	3945.4	3897.5	3849.6	3658.0	3529.6	3527.7	3422.3	3198.1	3117.6	2546.6
40°	4043.1	4070.0	4098.7	4071.9	3870.7	3728.9	3667.6	3589.0	3362.9	3280.5	2698.0
42.5°	4100.6	4175.4	4227.1	4209.9	4045.1	3901.3	3828.5	3763.4	3564.1	3483.6	2878.1
45°	3939.7	3941.6	4050.8	4144.7	4114.0	4018.2	4004.8	3958.8	3794.0	3717.4	3081.2
47.5°	3738.5	3723.1	3799.8	3966.5	4052.7	4077.6	4156.2	4175.4	4056.6	3979.9	3288.2
50°	3255.6	3265.2	3514.3	3753.8	3922.4	4083.4	4263.5	4397.6	4326.7	4253.9	3506.6
52.5°	2648.2	2671.2	2956.7	3483.6	3750.0	4025.9	4326.7	4619.9	4602.7	4533.7	3725.1
55°	2123.1	2159.5	2462.3	3033.3	3529.6	3897.5	4353.6	4823.0	4888.2	4824.9	3939.7
57.5°	1623.0	1661.3	1916.2	2502.5	3247.9	3688.7	4334.4	5001.2	5154.5	5114.3	4137.0
60°	1222.5	1260.8	1423.7	2029.2	2895.4	3454.9	4238.6	5118.1	5394.1	5351.9	4280.8
62.5°	875.7	906.4	1027.1	1578.9	2466.1	3177.0	4002.9	5120.0	5530.1	5495.6	4349.7
65°	630.4	630.4	728.1	1126.7	2063.7	2843.6	3646.5	4884.3	5501.4	5491.8	4301.8
67.5°	454.1	458.0	536.5	787.6	1646.0	2439.3	3184.7	4464.7	5279.1	5327.0	4129.4
70°	321.9	331.5	367.9	549.9	1243.6	1925.8	2690.3	3914.8	4878.6	4962.9	3796.0
72.5°	249.1	254.9	279.8	383.2	908.3	1431.4	2144.2	3301.6	4344.0	4439.8	3341.8
75°	191.6	197.4	216.5	281.7	651.5	1004.1	1523.4	2561.9	3502.8	3673.3	2684.6
77.5°	139.9	147.5	161.0	205.0	379.4	638.1	923.6	1441.0	1933.4	2013.9	1406.5
80°	65.2	74.7	93.9	132.2	205.0	300.8	327.7	555.7	929.3	971.5	762.6
82.5°	36.4	46.0	53.7	80.5	103.5	107.3	111.1	139.9	350.7	387.1	320.0
85°	17.2	23.0	24.9	34.5	34.5	30.7	36.4	26.8	57.5	69.0	67.1
87.5°	0.0	1.9	3.8	9.6	7.7	5.7	5.7	5.7	5.7	7.7	5.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2
2.5°	1676.7	1651.7	1594.3	1544.4	1511.9	1483.1	1444.8	1427.6	1396.9	1402.6	1385.4
5°	1686.2	1640.3	1538.7	1444.8	1375.8	1314.5	1247.4	1209.1	1167.0	1163.1	1149.7
7.5°	1692.0	1621.1	1475.5	1343.2	1237.9	1144.0	1053.9	1004.1	952.3	940.8	929.3
10°	1686.2	1592.3	1410.3	1237.9	1098.0	981.1	879.5	816.3	762.6	749.2	737.7
12.5°	1692.0	1577.0	1349.0	1140.1	973.4	841.2	726.2	661.1	611.3	597.8	590.2
15°	1705.4	1567.4	1297.3	1052.0	862.3	714.7	601.7	546.1	505.9	492.5	488.6
17.5°	1716.9	1557.9	1241.7	965.8	751.1	603.6	505.9	459.9	425.4	412.0	408.1
20°	1732.2	1544.4	1186.1	883.4	653.4	515.5	429.2	389.0	362.2	352.6	350.7
22.5°	1745.6	1534.9	1134.4	801.0	563.4	444.6	371.7	339.2	320.0	310.4	310.4
25°	1780.1	1538.7	1090.3	724.3	496.3	389.0	327.7	302.8	287.4	281.7	281.7
27.5°	1820.4	1554.0	1055.8	659.2	438.8	346.8	297.0	275.9	268.3	260.6	262.5
30°	1877.9	1584.7	1032.8	605.5	396.6	314.3	272.1	256.8	249.1	247.2	247.2
32.5°	1950.7	1634.5	1030.9	571.0	366.0	289.3	254.9	241.4	237.6	235.7	235.7
35°	2036.9	1678.6	1019.4	555.7	346.8	272.1	241.4	231.9	229.9	229.9	229.9
37.5°	2140.4	1751.4	1011.7	534.6	337.2	262.5	231.9	224.2	224.2	224.2	224.2
40°	2247.7	1810.8	1000.2	515.5	333.4	256.8	226.1	216.5	216.5	216.5	216.5
42.5°	2376.1	1897.0	996.4	505.9	327.7	252.9	218.4	206.9	208.9	208.9	210.8
45°	2531.3	1994.7	994.5	496.3	325.8	249.1	210.8	197.4	199.3	197.4	197.4
47.5°	2688.4	2107.8	1000.2	490.5	323.8	245.3	205.0	187.8	187.8	185.9	185.9
50°	2853.2	2211.3	1004.1	484.8	320.0	237.6	195.5	180.1	176.3	172.5	174.4
52.5°	3008.4	2307.1	1006.0	475.2	308.5	226.1	187.8	170.5	164.8	159.0	161.0
55°	3163.6	2399.1	1009.8	463.7	293.2	214.6	178.2	161.0	153.3	145.6	145.6
57.5°	3303.5	2479.5	1000.2	435.0	275.9	203.1	168.6	149.5	138.0	130.3	130.3
60°	3399.3	2537.0	971.5	392.8	252.9	189.7	159.0	138.0	124.6	118.8	118.8
62.5°	3445.3	2546.6	919.8	323.8	224.2	176.3	147.5	126.5	115.0	111.1	111.1
65°	3401.2	2504.5	839.3	243.4	193.5	161.0	136.0	116.9	105.4	95.8	95.8
67.5°	3247.9	2385.6	728.1	184.0	164.8	145.6	124.6	107.3	93.9	86.2	86.2
70°	2939.4	2138.5	563.4	147.5	139.9	126.5	113.1	95.8	84.3	74.7	74.7
72.5°	2535.1	1812.7	396.6	118.8	118.8	107.3	95.8	84.3	72.8	65.2	65.2
75°	1944.9	1341.3	266.3	95.8	97.7	90.1	78.6	69.0	61.3	55.6	55.6
77.5°	1061.6	663.0	162.9	70.9	72.8	69.0	61.3	55.6	51.7	46.0	46.0
80°	515.5	291.3	93.9	49.8	51.7	49.8	46.0	40.2	40.2	36.4	36.4
82.5°	216.5	109.2	49.8	34.5	34.5	30.7	28.7	28.7	28.7	26.8	26.8
85°	53.7	21.1	21.1	19.2	19.2	19.2	17.2	17.2	17.2	13.4	15.3
87.5°	7.7	7.7	7.7	7.7	7.7	7.7	5.7	1.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)